

Note :

- 1. All questions are compulsory.
- 2. Each question carry 15 marks.
- 3. Figures to the right indicate marks.

Q.1 a) Human Resource Management has lot to do in Productivity improvement. Explain? [8]

b) Define Quality Circles and explain its objectives. [7]

OR

Q.1 a) Explain different methods of Job Evaluation. [8]

b) Explain the reasons for learning curve? [7]

OR

Q.2 a) Write Advantages and Disadvantages of the Incentive plans? [8]

b) Explain Job Rotation and Job Enlargement? [7]

OR

a) Explain the concept of Brain Storming and its Methodology? [8]

b) Explain different techniques of Work Measurement ? [7]

Q.3 Write Short note on the following : [5 marks each] [15]

- a) Break Even Point
- b) Service Quality
- c) Method Study

OR

Write short notes on the following :[5 marks each] [15]

- a) National Productivity Council (NPC)
- b) Total Quality Management (TQM)
- c) Total Factor Productivity (TFP)

Q.4 Solve the following Problems : [15]

a) A data of a process is given below. Total output - 10,000 [7]

unit of Input	Expenses on Input (Rupees in Million)
Capital	4000
Raw materials	2000
Salary	850
Electricity	350

Calculate Partial Productivity for each unit of Input.

- b) Calculate the payment to be made to following workers as per "Guaranteed Time Rate." [8]

Guaranteed Time rate = Rs. 40 per day

Norms of Production = 20 pieces per day

Piece rate = Rs. 0.4 per price above norm

Jayesh produces 24 pieces on Certain day.

Dhamesh produces 27 pieces on same day.

Ramesh produces 18 pieces on same day.

Mahesh produces 20 pieces on same day.

Naresh produces 26 pieces on same day.

OR

Q.4 Solve the following problems :- [15]

- a) In case A, spending 90 rupees makes 10 products. In case B, 30 products made by spending 280 rupees and in case C, spending 358 rupees makes 40 products. Calculate Productivity in each case and show the relationship between productivity and Production. [8]

Which case in the best?

- b) Calculate earnings of following workers as per "Differential price Rate." [7]

Normal Production = 20 pieces per day

Piece rate for workers producing

Normal and less than normal = 0.5 per piece

Above Normal = 0.9 per piece.

Worker Tom produces 26 pieces in a day

Worker Jerry produces 20 pieces in a day

Worker Harry produces 18 pieces in a day.
